

DERWENT-ACC-NO: 2001-258859  
DERWENT-WEEK: 200626  
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TITLE: Aqueous hair wash containing a polyethyleneglycol alkylcitrate sulfosuccinate and lower alkylacrylate/di(m)ethylaminoethyl (meth)acrylate/alkylpolyethylene glycol-itaconate terpolymer

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PRIORITY-DATA: 1999DE-1037813 (August 11, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
<u>DE</u> <u>19937813</u> <u>A1</u>	February 15, 2001	DE
<u>DE</u> <u>19937813</u> <u>B4</u>	April 13, 2006	DE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 19937813A1	August 11, 1999	1999DE-1037813	
DE 19937813B4	August 11, 1999	1999DE-1037813	

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP <u>A61 K 8/81</u>		20060101
CIPS <u>A61 Q 19/10</u>		20060101
CIPS <u>A61 Q 5/02</u>		20060101
CIPS <u>A61 Q 5/10</u>		20060101
CIPS <u>A61 Q 5/12</u>		20060101
CIPS <u>C08 L 33/08</u>		20060101

ABSTRACTED-PUB-NO: DE 19937813 A1  
BASIC-ABSTRACT:

NOVELTY - An aqueous hair wash contains (by wt.):

(a) a polyethyleneglycol-(3-10)-8-18C-alkylcitrate sulfosuccinate and/or a water-soluble salt (2.5-50%); and

(b) a 1-4C alkylacrylate/di(m)ethylaminoethyl (meth)acrylate/10-30C alkyl-polyethylene glycol-10-30C-itaconate terpolymer (0.25-10%).

USE - As a shampoo optionally with conditioning properties.

ADVANTAGE - The shampoo is gel-forming and transparent and combines good skin compatibility and mildness with stable viscosity and high foam volume generation to give the hair good volume, gloss, wet and dry compatibility and feel. Further, it is self-thickening, attaining a 25 degreesC Brookfield viscosity of 1,000-60,000 mPa.s without the need to add (in)organic thickeners.

ABSTRACTED-PUB-N0: DE 19937813 A1  
EQUIVALENT-ABSTRACTS:

#### ORGANIC CHEMISTRY

Preferred Compositions: The composition also contains 2.5-50 wt.% anionic, nonionic, zwitterionic and/or amphoteric surfactant, especially (i) a mixture of a sulfate-, sulfonate-, phosphate- and/or carboxylate-surfactant with an 8-18C acylaminocarboxylic acid (especially lauroyl glutamate or water-soluble salt) at wt. ratio 10 : 1-1 : 3; or (ii) an alkylpolyglucoside of formula (I).

R-0-(R10)n-Zx (I)

R = 8-18C alkyl;

R1 = ethylene or propylene;

Z = 5 or 6C saccharide residue;

n = 0-10; and

x = 1-5.

The composition further comprises an aqueous, alcoholic or aqueous/alcoholic plant extract (0.01-10%); and/or visible particles (0.05-10%); and/or a hair-conditioning polymer (0.05-7.5%).

A shampoo (pH 6.0 and viscosity 40,000 mPa.s) containing 3 wt.% Et acrylate/diethylaminoethyl methacrylate/10-20C alkyl-PEG-20-itaconate terpolymer was viscosity-stable for 3 months at 40 degreesC and gave a better (i.e. creamier and more uniform) foam and better hair properties than did the same shampoo lacking the terpolymer, the other components being (by wt.) di-Na salt of citric acid laurylpolyglycol ester sulfosuccinate (10%); 12-14C fatty alcohol ether sulfate (ca. 2E0) (4%); 8-12C alkylglucoside (PD ca. 1.5) (4%); Na lauroyl glutamate (2%); Polyquaternium-7 (RTM: cationic polymer) (no amount given); Na benzoate (10%); Na sorbate (4%); perfume (4%); PEG-40-hydrogenated castor oil (2%); citric acid (3%); benzophenone-3 (0.2%); and water (to 100%).

DERWENT-CLASS: A14 A25 A96 D21 E19

CPI-CODES: A04-D09; A04-F06E5; A05-H03; A10-E01; A12-V04A; D08-B04; E05-A; E05-B01; E10-A09B8;